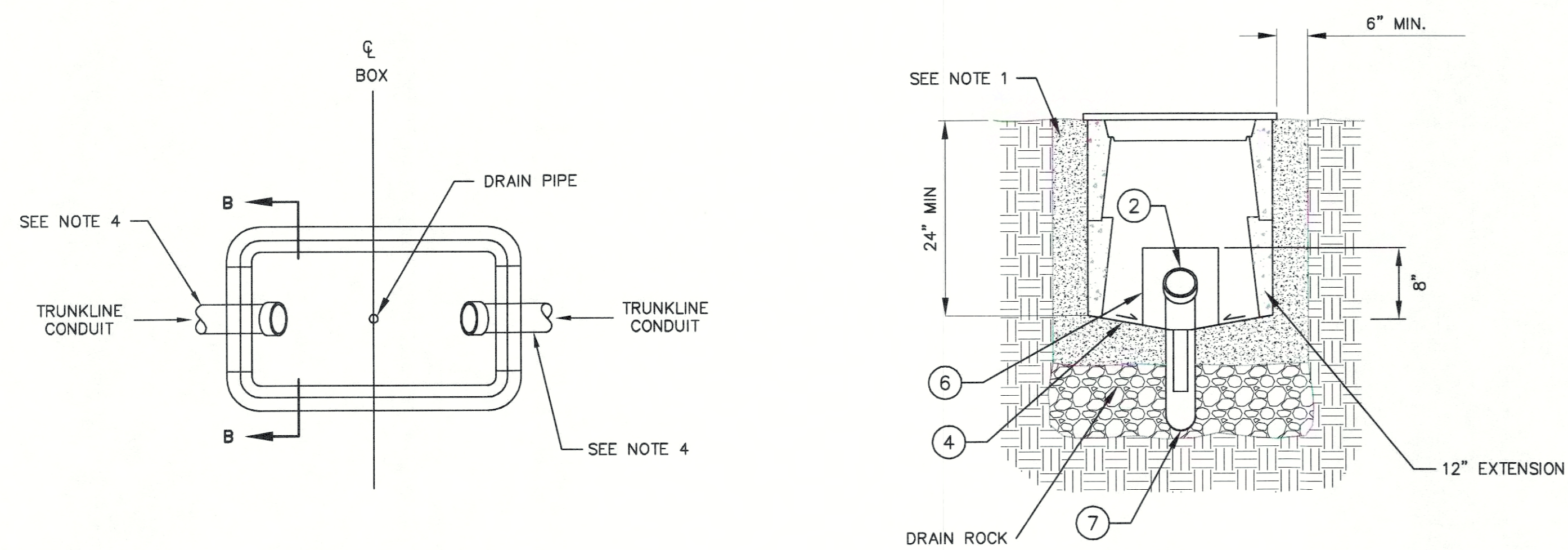


CONDUIT SWEEPS DETAIL
NOT TO SCALE

ITEM	DESCRIPTION
①	WARNING TAPE (IF OPEN TRENCHING)
②	CONDUIT BELL END (TYPICAL)
③	NO. 6(E) PULL BOX WITH EXCEPTIONS AS DRAWN
④	GROUTED FLOOR OVER CLEAN CRUSHED ROCK SUMP
⑤	COMMUNICATION CABLE AS REQUIRED
⑥	8"x12" KNOCK OUT. GROUT AND FINISH OPENINGS AFTER CONDUIT IS INSTALLED.
⑦	SCHEDULE 40 HDPE CONDUIT (SEE PLANS FOR SIZE AND QUANTITY)
⑧	45 DEGREE HDPE ELBOW, 36" RADIUS

NOTES:

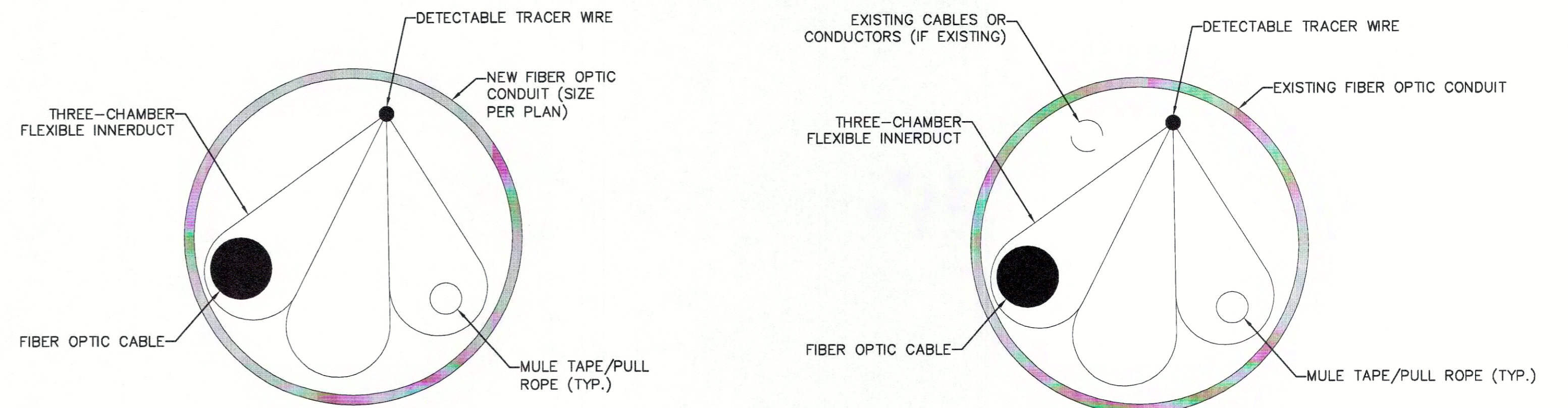
- BACKFILL ACCORDING TO CITY OF CUPERTINO STANDARD SPECIFICATIONS AND DETAILS FOR WORK WITHIN CITY OF CUPERTINO.
- "CITY OF CUPERTINO COMMUNICATION" SHALL BE INTEGRATED IN THE LID.
- CONDUIT FROM THE TYPICAL TRENCH SECTION SHOULD NOT DEFLECT BY MORE THAN 1 FOOT PER 10 FEET FROM THE ALIGNMENT PRECEDING OR FOLLOWING THE PULL BOX.
- SEE PLAN SHEETS FOR NUMBER AND SIZE OF CONDUIT. IF MORE THAN 3 CONDUIT ARE REQUIRED IN THE SAME KNOCKOUT, KNOCKOUT SHALL BE WIDENED TO 0.5" MORE THAN THE COMBINED CONDUIT WIDTH.
- END OF CONDUIT SHALL BE ALIGNED TO EXIT TOP OF PULL BOX TO FACILITATE CABLE PULLING.
- NUMBERS IN CIRCLES REFER TO ITEMS IN THE TABLE.
- IF EXISTING CONDUIT IS USED, THE CONTRACTOR SHALL MODIFY CONDUIT SWEEPS (IF NEEDED) AS SHOWN. IF NEW CONDUIT IS USED, THE CONTRACTOR SHALL INSTALL SCHEDULE 40 HDPE CONDUIT WITH SWEEP AS SHOWN.
- PULL BOX HEIGHT ABOVE FINISHED GRADE SHALL PERMIT 1" OF SURFACE LANDSCAPING, IF APPLICABLE, TO MATCH EXISTING CONDITIONS.
- NO. 6(E) PULL BOX SHALL BE POLYMER AND SUPPORT A MINIMUM TEST LOAD OF 12,500 LBS.
- ALL METALLIC CONDUIT SHALL HAVE GROUND BUSHINGS. ALL PVC AND HDPE CONDUIT SHALL HAVE BELL ENDS.
- ALL CONDUIT SHALL ENTER THE SHORT SIDE OF THE PULL BOX UNLESS OTHERWISE APPROVED OR DIRECTED BY THE ENGINEER.



SECTION A-A
NOT TO SCALE

SECTION B-B
NOT TO SCALE

NO. 6 PULL BOX WITH EXTENSION DETAIL (6E)
NOT TO SCALE



NEW CONDUIT

EXISTING CONDUIT

TYPICAL FIBER CONDUIT DETAIL
NOT TO SCALE



DESIGN: MFF
DRAWN BY: ISW
APPROVED BY: _____

CHECKED: EKC
DATE: 6/7/2017

NO.	REVISION:	DATE:

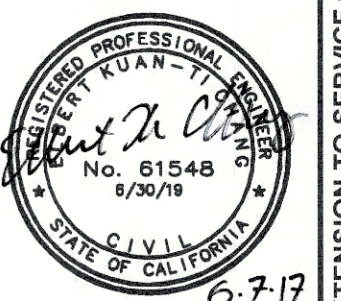
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(510) 825-0712
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FIBER NETWORK EXTENSION TO
SERVICE CENTER PROJECT
PULL BOX AND FLEXIBLE DIVIDER DETAILS



CITY OF CUPERTINO
DEPARTMENT OF PUBLIC WORKS

SCALE: NONE
SHEET: 6 of 10 SHEETS



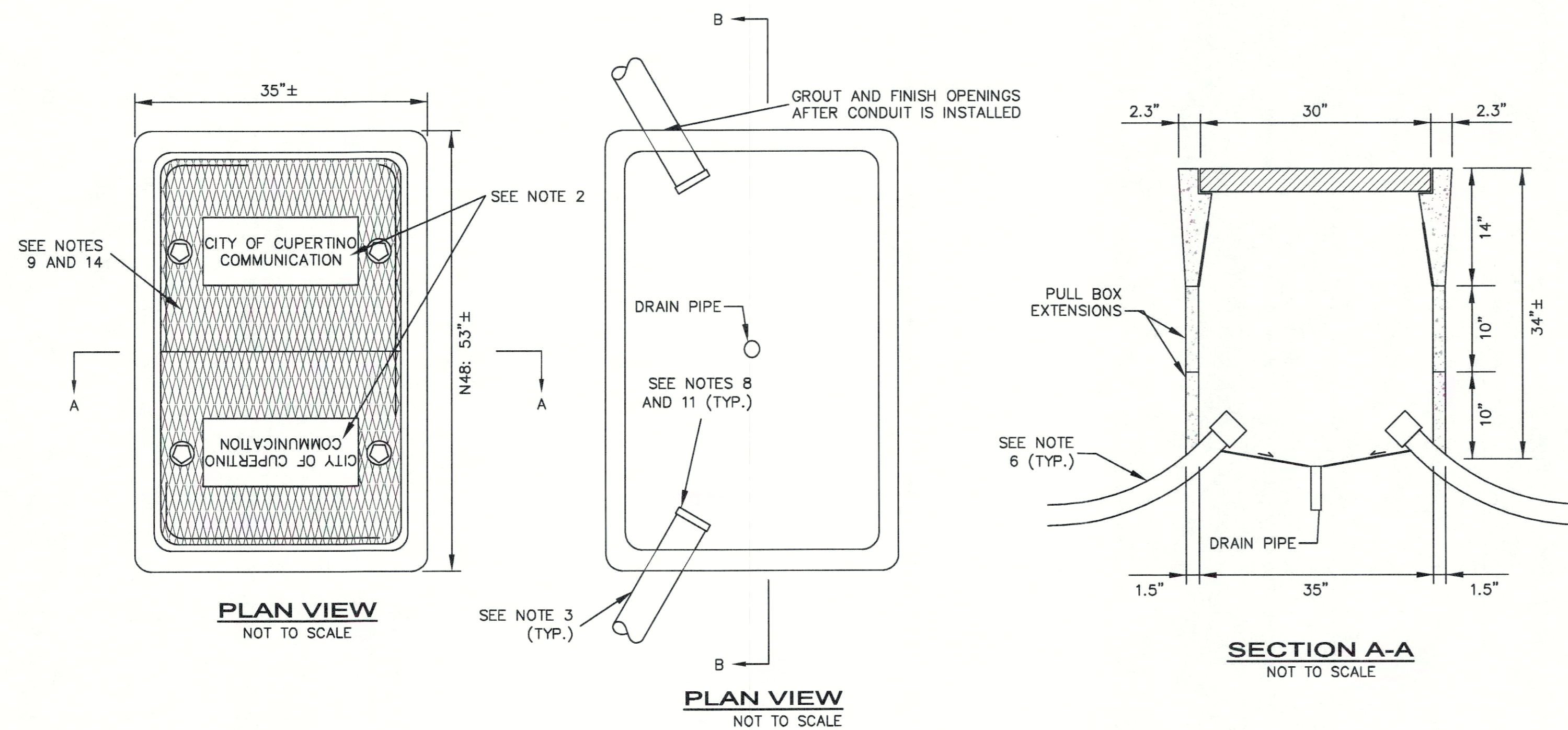
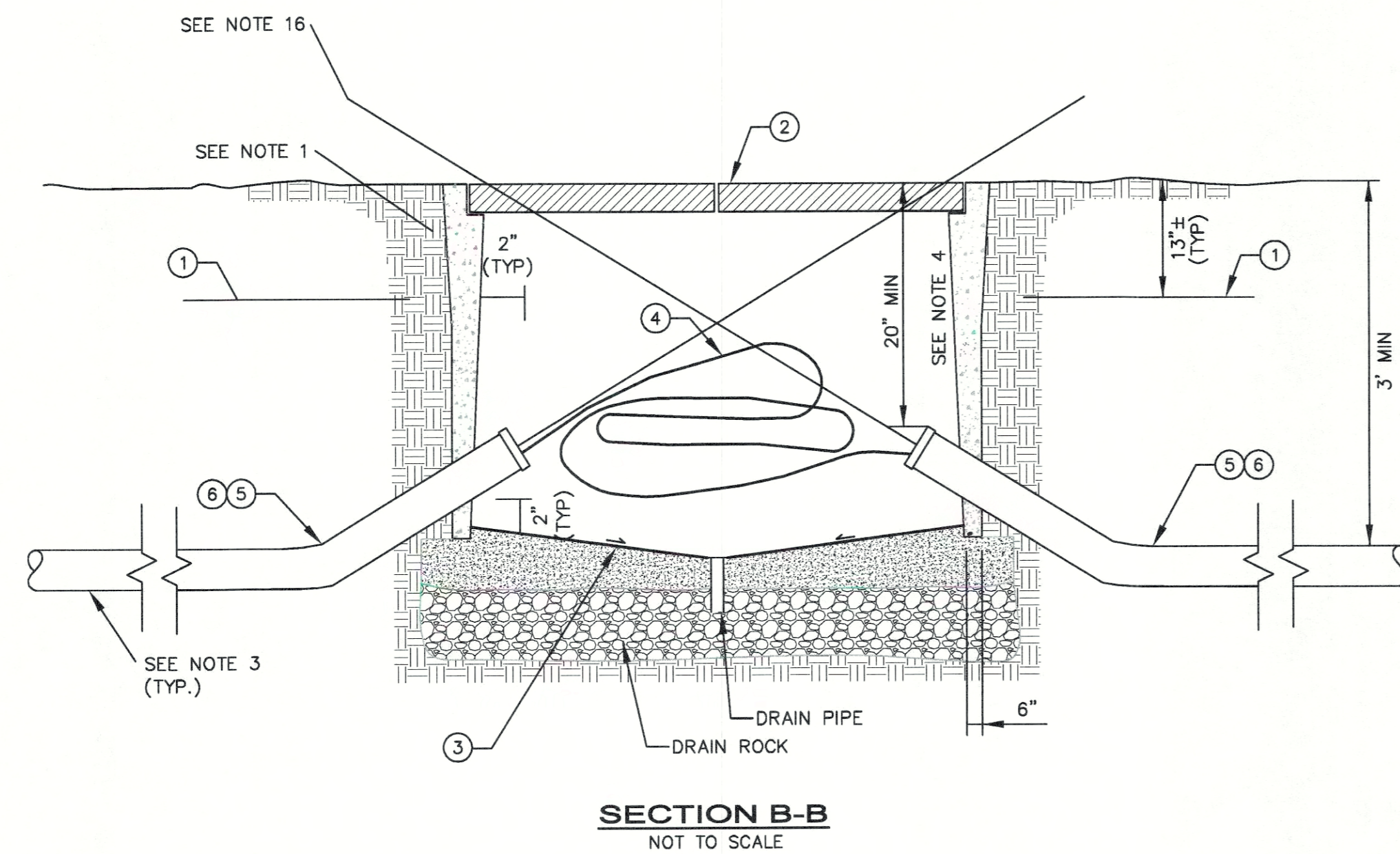


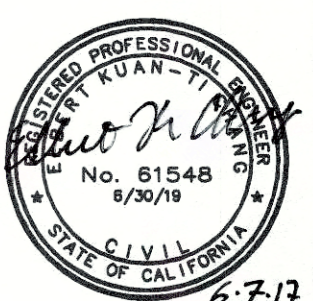
TABLE	
ITEM	DESCRIPTION
①	WARNING TAPE (IF OPEN TRENCHING)
②	FIBER OPTIC SPLICE BOX WITH LID
③	GROUTED FLOOR OVER CLEAN CRUSHED ROCK SUMP PER CITY STANDARDS
④	FIBER OPTIC CABLE, AS REQUIRED
⑤	SCHEDULE 80 HDPE CONDUIT (SEE PLANS FOR SIZE AND QUANTITY) "SCH 80 HDPE"
⑥	45 DEGREE ELBOW, 36" RADIUS (TO MATCH CONDUIT TYPE AND SIZE)



NOTES:

- BACKFILL ACCORDING TO THE CITY OF CUPERTINO'S STANDARD SPECIFICATIONS AND DETAILS.
- "CITY OF CUPERTINO COMMUNICATION" SHALL BE INTEGRATED ON THE LID.
- CONDUIT FROM THE TYPICAL BORE OR TRENCH SECTION SHOULD NOT DEFLECT BY MORE THAN 1 FOOT OF DEFLECTION PER 10 FEET OF CONDUIT RUN FROM THE ALIGNMENT PRECEDING OR FOLLOWING THE VAULT.
- TOP OF TRUNKLINE CONDUIT ENTERING THROUGH THE SIDE OF THE VAULT SHALL BE LOCATED AT LEAST 20" BELOW EXISTING FINISHED GROUND.
- NUMBERS IN CIRCLES REFER TO ITEMS IN THE TABLE.
- IF EXISTING CONDUIT IS USED FOR PROJECT FIBER, THE CONTRACTOR SHALL MODIFY CONDUIT SWEEPS TO ALIGN WITH TOP OF VAULT AS SHOWN. IF NEW CONDUIT IS USED, THE CONTRACTOR SHALL INSTALL SCHEDULE 80 HDPE CONDUIT WITH SWEEP WITH A MAXIMUM ANGLE OF 45 DEGREES.
- VAULT HEIGHT ABOVE FINISHED GRADE SHALL PERMIT 1" OF SURFACE LANDSCAPING, IF APPLICABLE, TO MATCH EXISTING CONDITIONS.
- EXCESS CONDUIT FOR ALL CONDUIT ENDS SHALL BE CUT BACK TO PROVIDE STUB ENDS OF 1" MIN. AND 2" MAX.
- LOCKING MECHANISM SHALL BE PROVIDED FOR COVER. FOUR 3/4" PENTA HEAD BOLTS SHALL BE USED. TWO 3/4" PENTA HEAD SOCKETS AND RATCHET SHALL BE PROVIDED TO THE CITY.
- FIBER OPTIC VAULT, VAULT COVER, AND VAULT EXTENSIONS SHALL BE POLYMER AND SHALL SUPPORT A MINIMUM TEST LOAD OF 12,500 LBS. IF VAULT IS LOCATED IN A TRAVELED WAY, ALL COMPONENTS SHALL CONFORM TO VERTICAL PROOF-LOAD STRENGTH REQUIREMENTS PER THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (2015), SECTION 86-1.02C.
- ALL METALLIC CONDUIT SHALL HAVE GROUND BUSHINGS. ALL PVC AND HDPE CONDUITS SHALL HAVE BELL ENDS.
- TRUNK LINE CONDUITS SHALL ENTER THROUGH KNOCKOUTS.
- FURNISH AND INSTALL CAPS OR PLUGS FOR ALL UNUSED CONDUIT.
- CONTRACTOR MAY SUBSTITUTE THE TWO-PIECE LID FOR A SINGLE POLYMER LID WHEN NOT INSTALLED IN TRAVELED WAY.
- CONTRACTOR MAY ELECT TO PROVIDE A SINGLE POLYMER VAULT WITH 34" DEPTH AND OMIT THE TWO 10" VAULT EXTENSIONS.
- BOTTOM OF CONDUIT CENTERLINE SHALL BE ALIGNED TO EXIT TOP OF VAULT TO FACILITATE CABLE PULLING.
- VAULTS SHALL BE INSTALLED TO ALIGN WITH AND BE PARALLEL OR PERPENDICULAR TO SIDEWALK EDGES AND SCORE LINES.

N48 FIBER OPTIC VAULT DETAIL
NOT TO SCALE



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FIBER NETWORK EXTENSION TO
SERVICE CENTER PROJECT
VAULT DETAIL



CITY OF CUPERTINO
DEPARTMENT OF PUBLIC WORKS

SCALE: NONE
SHEET: 7 OF 10 SHEETS

FIBER NETWORK EXTENSION TO SERVICE CENTER 2017-04

**SERVICE CENTER HUB
TERMINATION ASSIGNMENTS**

Port	Destination
1 *	Senior Center Panel #2 (terminated #1 port) City Hall - Service Center Connection
2 *	Senior Center Panel #2 (terminated #2 port) City Hall - Service Center Connection
3 *	Senior Center Panel #2 (terminated #3 port) Senior Center-Service Center Redundant Connection
4 *	Senior Center Panel #2 (terminated #4 port) Senior Center-Service Center Redundant Connection
5	Senior Center Panel #2 (terminated #5 port)
6	Senior Center Panel #2 (terminated #6 port)
7	Senior Center Panel #2 (terminated #7 port)
8	Senior Center Panel #2 (terminated #8 port)
9	Senior Center Panel #2 (terminated #9 port)
10	Senior Center Panel #2 (terminated #10 port)
11	Senior Center Panel #2 (terminated #11 port)
12	Senior Center Panel #2 (terminated #12 port)

**SENIOR CENTER FIBER TERMINATION ASSIGNMENTS
PANEL #1 (TO STEVENS CREEK BOULEVARD)**

Port	Destination
1	City Hall (terminated #1 port)
2	City Hall (terminated #2 port)
3	City Hall (terminated #7 port)
4	City Hall (terminated #8 port)
5 *	City Hall (terminated #9 port) City Hall - Service Center Connection
6 *	City Hall (terminated #10 port) City Hall - Service Center Connection
7	City Hall (terminated #11 port)
8	City Hall (terminated #12 port)
9 *	Sports Center (terminated #8 port) Redundant Connection
10 *	Sports Center (terminated #7 port) Redundant Connection
11	Stevens Creek-Mary pull box (unterminated)
12	Stevens Creek-Mary pull box (unterminated)

**SENIOR CENTER FIBER TERMINATION ASSIGNMENTS
PANEL #2 (TO MARY AVENUE)**

Port	Destination
1 *	Service Center (terminated #1 port) Patch to Panel #1 (#5 port)
2 *	Service Center (terminated #2 port) Patch to Panel #1 (#6 port)
3 *	Service Center (terminated #3 port) Senior Center - Service Center Redundant Connection
4 *	Service Center (terminated #4 port) Senior Center - Service Center Redundant Connection
5	Service Center (terminated #5 port)
6	Service Center (terminated #6 port)
7	Service Center (terminated #7 port)
8	Service Center (terminated #8 port)
9	Service Center (terminated #9 port)
10	Service Center (terminated #10 port)
11	Service Center (terminated #11 port)
12	Service Center (terminated #12 port)
13	Service Center (unterminated)
14	Service Center (unterminated)
15	Service Center (unterminated)
16	Service Center (unterminated)
17	Service Center (unterminated)
18	Service Center (unterminated)
19	Service Center (unterminated)
20	Service Center (unterminated)
21	Service Center (unterminated)
22	Service Center (unterminated)
23	Service Center (unterminated)
24	Service Center (unterminated)

**CUPERTINO SPORTS CENTER
TERMINATION ASSIGNMENTS**

Port	Destination
1	City Hall (terminated #33 port)
2	City Hall (terminated #34 port)
3	City Hall (terminated #35 port)
4	City Hall (terminated #36 port)
5 *	Quinlan Community Center (terminated #10 port) Redundant Connection
6 *	Quinlan Community Center (terminated #9 port) Redundant Connection
7 *	Senior Center (terminated #10 port) Redundant Connection
8 *	Senior Center (terminated #9 port) Redundant Connection
9	Stevens Creek-Stelling pull box (unterminated)
10	Stevens Creek-Stelling pull box (unterminated)
11	Stevens Creek-Stelling pull box (unterminated)
12	Stevens Creek-Stelling pull box (unterminated)

**QUINLAN COMMUNITY CENTER
TERMINATION ASSIGNMENTS**

Port	Destination
1	City Hall (terminated #25 port)
2	City Hall (terminated #26 port)
3	City Hall (terminated #27 port)
4	City Hall (terminated #28 port)
5	City Hall (terminated #29 port)
6	City Hall (terminated #30 port)
7	City Hall (terminated #31 port)
8	City Hall (terminated #32 port)
9 *	Sports Center (terminated #6 port) Redundant Connection
10 *	Sports Center (terminated #5 port) Redundant Connection
11	Stevens Creek-Stelling pull box (unterminated)
12	Stevens Creek-Stelling pull box (unterminated)

NOTE:

 NEW TERMINATIONS

* NEW CONNECTION BY PROJECT

DESIGN: MFF
DRAWN BY: ISW
APPROVED BY:

NO.	REVISION:	DATE:

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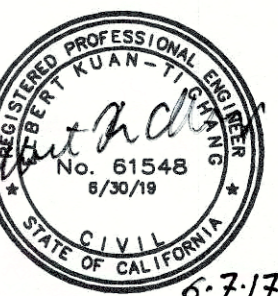
FIBER NETWORK EXTENSION TO
SERVICE CENTER PROJECT
FIBER TERMINATION TABLES

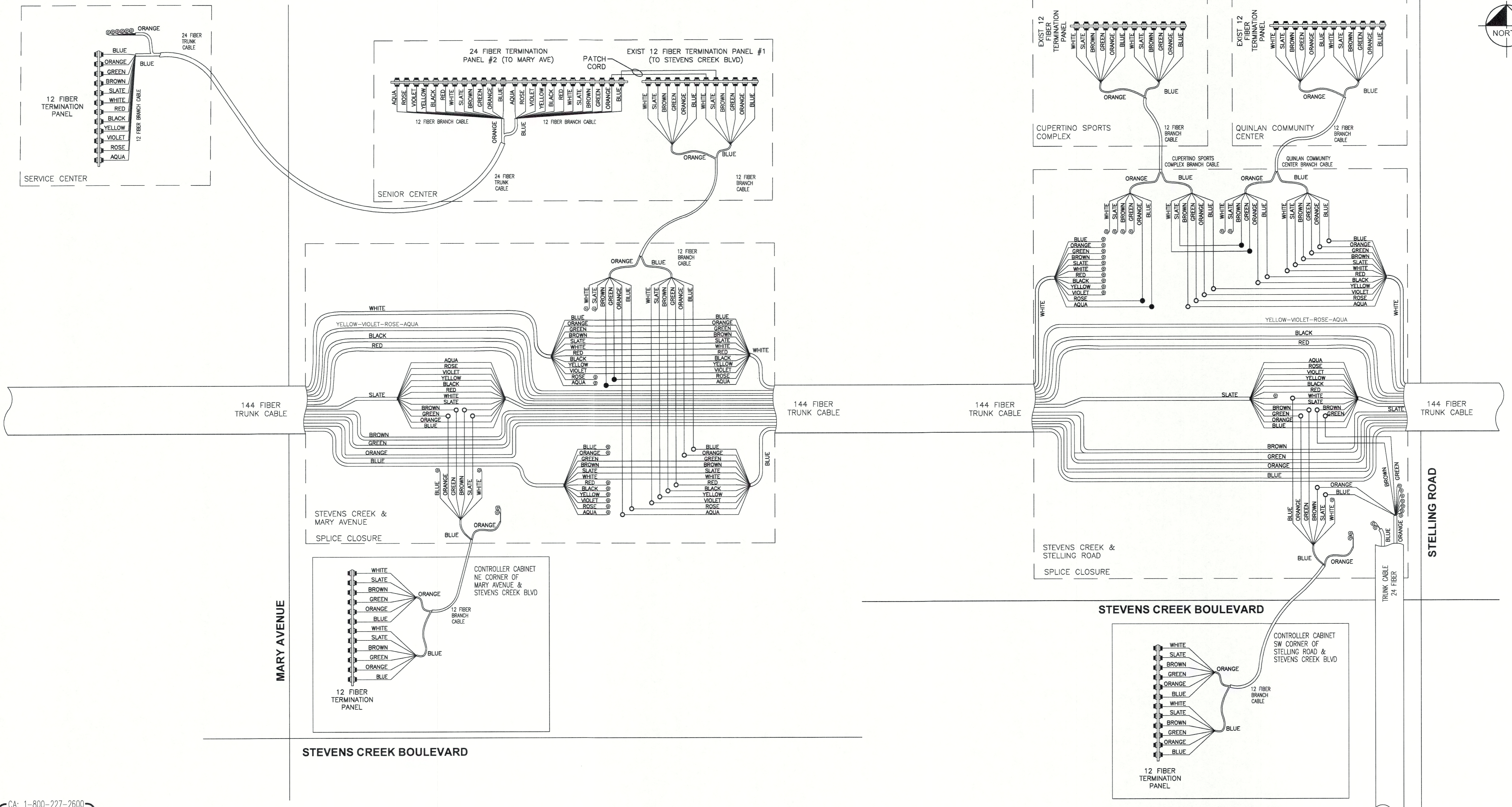


CITY OF CUPERTINO

DEPARTMENT OF PUBLIC WORKS

SCALE: NONE
SHEET: 8 OF 10 SHEETS





LEGEND

- EXISTING SPLICE
- NEW SPLICE



DESIGN: MFF	CHECKED: EKC	NO.	REVISION:	DATE:
DRAWN BY: ISW	DATE: 6/7/2017			
APPROVED BY:				

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FIBER NETWORK EXTENSION TO SERVICE CENTER PROJECT
 FIBER SPLICE DIAGRAMS



CITY OF CUPERTINO
 DEPARTMENT OF PUBLIC WORKS

SCALE: NONE
 SHEET: 9 OF 10 SHEETS

FIBER NETWORK EXTENSION TO SERVICE CENTER 2017-04

